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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/082,673	02/22/2002	Ronald Wetzel	HME/7477.014	3069
29085	7590	12/29/2004	EXAMINER	
HOWARD EISENBERG, ESQ. 2206 APPLEWOOD COURT PERKASIE, PA 18944			CHEU, CHANGHWA J	
		ART UNIT		PAPER NUMBER
				1641

DATE MAILED: 12/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/082,673	WETZEL ET AL.	
Examiner	Art Unit		
Jacob Cheu	1641		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ____ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 15 October 2004.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 21-26 and 50-52 is/are pending in the application.
4a) Of the above claim(s) 12-20, 27-29 is/are withdrawn from consideration.
5) Claim(s) _____ is/are allowed.
6) Claim(s) 21-26 and 50-52 is/are rejected.
7) Claim(s) _____ is/are objected to.
8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date
4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. ____ .
5) Notice of Informal Patent Application (PTO-152)
6) Other:

DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of group IV, claims 21-26 is acknowledged. The traversal is on the ground(s) that further search would not impose undue burden to the examiner. This is not found persuasive because group I-V are deemed patentably distinct, the search required for one group is not required for the other.

The requirement is still deemed proper and is therefore made FINAL.

Claims 1-12, 30-49 are cancelled.

Claims 50-52 are added.

Currently, claims 21-26 and 50-52 are under examination. Claims 12-20, 27-29 are withdrawn from further consideration.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
2. Claims 26, 52 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With respect to claim 26, it is not clear about "Q₁₆". Applicant needs to specify.

With respect to claim 52, line 2, "a solution of monomeric peptide" is vague and indefinite. It is not clear what constitutes or defines "monomeric peptide".

With respect to claim 52, line 3, "incubating the frozen peptides in a frozen state" is vague and indefinite. It is not clear what constitutes a "frozen state." What is the metes or bounds to the said frozen state?

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 21-25, 50-52 are rejected under 35 U.S.C. 102(b) as being anticipated by Harper et al. (Biochem. (1999) 38: 8972).

Harper et al. teach assembling synthetic A β peptides containing polyglutamine sequence into filament to study neurodegenerative disease, e.g. Alzheimer's disease. The filaments aggregates were measured by atomic force microscopy (AFM) (See page 8973, right column, second paragraph). The diameter is around 4.3 nm, the length is from 0-100 nm corresponding to the time of incubation (See Figure 2 (b) and (c)).

With respect to claims 24-25, the recited ranges of length, i.e. less than 75 and less than 60 nm, also falls within the ranges taught by Harper et al. (See Figure 2).

With respect to claim 50, Harper et al. teach using sonication for preparation of the A β peptides (See Method, page 8973).

With respect to claim 51, Harper et al. teach using filtering to increase the uniformity of the aggregate size (See Method , page 8973).

With respect to claim 52, applicant recites process of making the product, i.e. freezing the solution containing peptides, incubating the frozen peptides to permit aggregates. The

production of a product by a particular process does not impart novelty or unobviousness to a product when the same product is taught by the prior art. This is particularly true when the properties of the product are not changed by the process in an unexpected manner. See In re Thorpe, 227 USPQ 964 (CAFC 1985); In re Marosi, 218 USPQ 289, 292-293 (CAFC 1983); In re Brown, 173 USPQ 685 (CCPA 1972). Therefore, even if a particular process used to prepare a product is novel and unobvious over the prior art, the product per se, even when limited to the particular process, is unpatentable over the same product taught by the prior art. See In re Kind, 207 F.2d 618, 620, 43 USPQ 400, 402 (CCPA 1939); In re Merz, 97 F.2d 599, 601, 38 USPQ 143, 144-145 (CCPA 1938); In re Bergy, 563 F.2d 1031, 1035, 195 USPQ 344, 348 (CCPA 1977) *vacated* 438 U.S. 902 (1978); and United States v. Ciba-Geigy Corp., 508 F. Supp. 1157, 1171, 211 USPQ 529, 543 (DNJ 1979).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Art Unit: 1641

7. Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Harper et al. in view of Paulson et al. (Neuron 1997 19: 333).

Harper et al. reference has been discussed but is silent in teaching use of a at least 16 polyglutamine repeat sequence. Paulson et al. teach that polyglutamine repeats plays an important role in the development of pathological diseases. (See Introduction). Paulson further reveals a normal range of polyglutamine repeats, e.g. 12-37, and indicating the affected individuals had shown much higher values, e.g. 61-84 (See page 334, right column, first paragraph). Therefore, it would have been obvious to one ordinary skilled in the art at the time the invention was made to have motivated Harper et al. to synthesize/assemble higher polyglutamine repeat, i.e. at least 16 as recited in claim 26, as closely analogous to the clinical significance.

Conclusion

8. No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacob Cheu whose telephone number is 571-282-0814. The examiner can normally be reached on 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on 571-272-0823. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jacob Cheu
Examiner
Art Unit 1641



December 17 2004


LONG V. LE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600

12/26/04